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PTO UTILITY GRANT  
Paper Number 18

The Commissioner of Patents  
and Trademarks

The  
United  
States  
of  
America

Has received an application for a patent  
for a new and useful invention. The title  
and description of the invention are en-  
closed. The requirements of law have  
been complied with, and it has been de-  
termined that a patent on the invention  
shall be granted under the law.

Therefore, this

United States Patent

Grants to the person or persons having  
title to this patent the right to exclude  
others from making, using or selling the  
invention throughout the United States  
of America for the term of seventeen  
years from the date of this patent, sub-  
ject to the payment of maintenance fees  
as provided by law.



*David C. Lowry*

Acting Commissioner of Patents and Trademarks

*Marcia L. Campy*  
Attest

PTO-1584